

PTO/SB/08a (08-03)

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Institute for form 1449A/PTO

**SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3

**Complete if Known**

Application Number	10/616,284
Filing Date	July 8, 2003
First Named Inventor	Yang, et al.
Art Unit	1741
Examiner Name	Donald R. Valentine
Attorney Docket Number	AMAT/7669.P1/CMP/ECR/RKK

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
✓	A1	20040016647 A1	01-29-2004	Yang et al.	
✓	A2	20040118694 A1	08-24-2004	Yang et al.	
✓	A3	20040016636 A1	01-29-2004	Yang et al.	
	A4	5,656,386	08-12-1997	Scherer et al.	
	A5	6,423,642	07/23/02	Peace, et al.	
	A6	6,347,837	02/19/02	Watson, et al.	
	A7	5,785,833	07/28/98	Vaughan	
	A8	5,714,521	02/03/98	Kedem, et al.	
	A9	5,705,050	01/06/98	Sampson, et al.	
	A10	5,843,456	07/01/97	Smith, et al.	
	A11	5,518,418	05/14/96	Doss, et al.	
	A12	5,486,264	01/23/96	Ghandour	
	A13	5,482,680	01/09/96	Wilkinson, et al.	
	A14	5,435,903	07/25/95	Oda, et al.	
	A15	5,287,237	02/15/94	Kitada, et al.	
	A16	4,298,672	10/27/81	Inhofer	
	A17	6,080,291	06/27/00	Woodruff, et al.	
✓	A18	5,597,460	01/28/97	Reynolds	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	B1	11-186210	07/09/99	JP	No Translation	
	B2	11-182805	06/18/99	JP	No Translation	
	B3	10-242110	09/11/98	JP	No Translation	
	B4	10-177988	06/30/98	JP	No Translation	
	B5	9-283858	11/11/97	JP	No Translation	
	B6	7-14811	01/17/85	JP	No Translation	
✓	B7	WO-98/27585	06/25/1998	IBM Corporation		

Examiner Signature	<i>[Signature]</i>	Date Considered	9/1/05
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449A/PTO		<b>Complete if Known</b>			
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/616,284		
		Filing Date	July 8, 2003		
		First Named Inventor	Yang, et al.		
		Art Unit	1741		
		Examiner Name	Donald R. Valentine		
Sheet	3	of	3	Attorney Docket Number	AMAT/7669.P1/CMP/ECP/RKK

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>Ref</i>	C1	Colombo; "Wafer Back Surface Film Removal," Central R&D, SGS-THOMSON Microelectronics, Agate Italy	
<i>Ref</i>	C2	Pitney, "Ney Contact Manual" October 1974	
<i>Ref</i>	C3	Semitool Product Catalog (on-line) October 27, 1998	
<i>Ref</i>	C4	Singer, "Copper Has Enormous Benefits When Compared to Aluminum, but its Implementation Requires Some Fundamental Changes in Process Technologies," Semiconductor International June 1998.	
<i>Ref</i>	C5	Singer, "Wafer Processing," Semiconductor International June 1998.	
<i>Ref</i>	C6	PCT International Search Report from International Application No. PCT/US 2004/022183, dated October 15, 2004.	

Examiner Signature	<i>Fi L B</i>	Date Considered	9/1/05
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of  
Invention

MULTI-CHEMISTRY PLATING SYSTEM

Application Number: 10/616284



Confirmation Number: 9910

First Named Applicant: MICHAEL YANG

Attorney Docket Number: AMAT7669P1

Art Unit: 1741

Search string: ( 5224504 or 5489341 or 5573023 or 5620581  
or 5731678 or 5744019 or 5837120 or 5883762  
or 5996241 or 6014817 or 6099702 or 6099712  
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or 6280582 or 6322674 or 6322678 or 6368475  
or 6374837 or 6383352 or 6391166 or 6395101  
or 6395152 or 6409892 or 6432821 or 6436249  
or 6440295 or 6527920 or 6551487 or 6569299  
or 6589401 or 6525196 or 6197181 or 6290833  
or 6319387 or 6334937 or 6551479 or  
20020074233 ).pn.

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents


init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
10	1	5224504	1993-07-06	THOMPSON, ET AL.			
10	2	5489341	1996-02-06	BERGMAN, ET AL.			
10	3	5573023	1996-11-12	THOMPSON, ET AL.			
10	4	5620581	1997-04-15	ANG			
10	5	5731678	1998-03-24	ZILA, ET AL.			
10	6	5744019	1998-04-28	ANG			
10	7	5837120	1998-11-17	FORAND, ET AL.			
10	8	5883762	1999-03-16	CALHOUN, ET AL.			
10	9	5996241	1999-12-07	THOMPSON, ET AL.			
10	10	6014817	2000-01-18	THOMPSON, ET AL.			

11	6099702	2000-08-08	REID, ET AL.
12	6099712	2000-08-08	RITZDORF, ET AL.
13	6126798	2000-10-03	REID, ET AL.
14	6132857	2000-10-17	CHAMPENOIS, ET AL.
15	6136163	2000-10-24	CHEUNG, ET AL.
16	6156167	2000-12-05	PATTON, ET AL.
17	6179983	2001-01-30	REID, ET AL.
18	6228231	2001-05-08	UZOH
19	6228232	2001-05-08	WOODRUFF, ET AL.
20	6248222	2001-06-19	WANG
21	6254742	2001-07-03	HANSON, ET AL.
22	6261433	2001-07-17	LANDAU
23	6267853	2001-07-31	DORDI, ET AL.
24	6273110	2001-08-14	DAVIS, ET AL.
25	6280582	2001-08-28	WOODRUFF, ET AL.
26	6322674	2001-11-27	BERNER, ET AL.
27	6322678	2001-11-27	WOODRUFF, ET AL.
28	6368475	2002-04-09	HANSON, ET AL.
29	6374837	2002-04-23	SCRANTON, ET AL.
30	6383352	2002-05-07	SHYU, ET AL.
31	6391166	2002-05-21	WANG
32	6395101	2002-05-28	SCRANTON, ET AL.
33	6395152	2002-05-28	WANG
34	6409892	2002-06-25	WOODRUFF, ET AL.
35	6432821	2002-08-13	DUBIN, ET AL.
36	6436249	2002-08-20	PATTON, ET AL.
37	6440295	2002-08-27	WANG
38	6527920	2003-03-04	MAYER, ET AL.
39	6551487	2003-04-22	REID, ET AL.
40	6569299	2003-05-27	REID, ET AL.
41	6589401	2003-07-08	PATTON, ET AL.
42	5252196	1993-10-12	SONNENBERG, ET AL.
43	6197181	2001-03-06	CHEN
44	6290833	2001-09-18	CHEN
45	6319387	2001-11-20	KRISHNAMOORTHY, ET AL.
46	6334937	2001-01-01	BATZ, JR, ET AL.

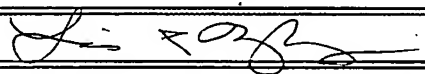
	47	6551479	2003-04-22	GRAHAM, ET AL.
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US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
	1	20020074233	2002-06-20	RITZDORF, ET AL.			

Signature

Examiner Name	Date
	9/1/05